Operating Instructions

(50x or 200x)

1.3 MEGA PIXELS USB DIGITAL MICROSCOPE

V1. 0

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1. Introduction

Thank you for choosing our product - it is a high-tech while easy to use Digital Microscope. With this product , you will see a unique and “bigger” world.
It’s easy to magnify stamps, coins, paper currency, plants, insects, rocks, minerals, and the list is endless.
Before operating this product, please read the manual completely.

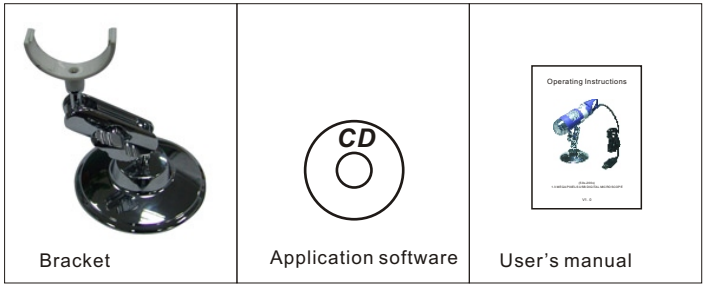
2. Computer System Requirements:

Windows 2000/XP/VISTA/WIN7
P4 1.8 or above
RAM: 256M
Video Memory: 32M
USB port: 2.0
CD-ROM Drive

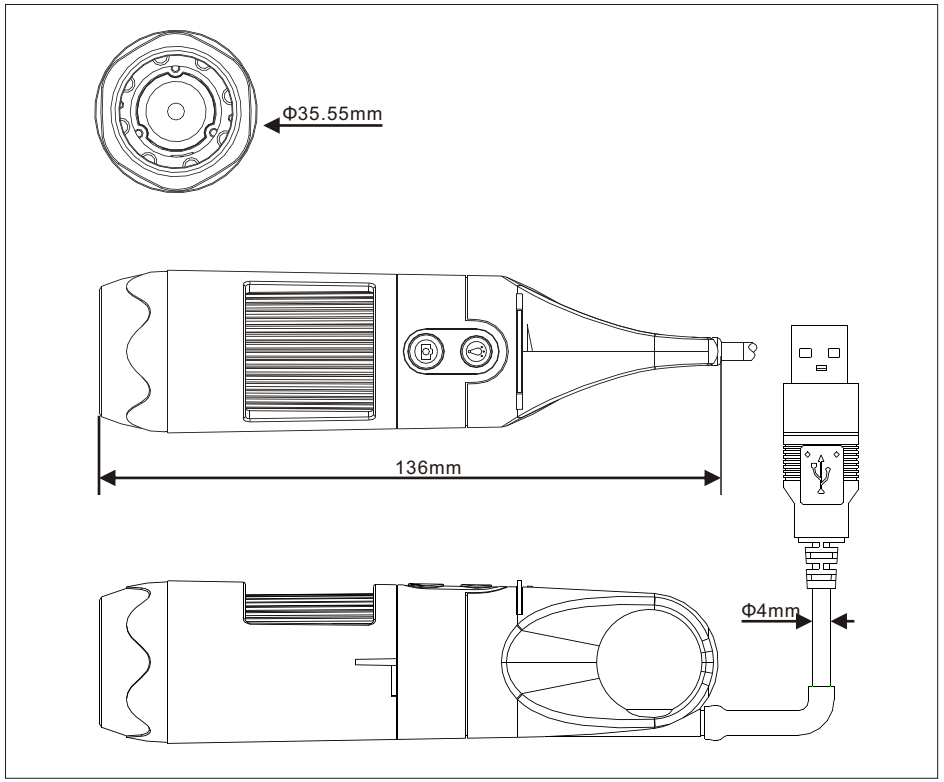
3. Technical Specifications

Array Element：1280×1024（SXGA）
Pixel Size：2.8μm×2.8μm
Image Area：3.6mm×2.9mm
Sensing Area: 1/4”
Magnification Ratio: 50x to 200x
Max. Frame Rate: 7.5fps@SXGA, 30fps@VGA
White Balance: Auto
Dynamic Range: 68dB
Max. SNR: 44dB
Responsivity: 1.0V/lux-sec(550nm)
Power Supply: 5V from USB port
Light source: 4 white LEDS /4 purple LEDS (adjustable by control gear wheel)
Operating Temperature: -10℃～50°C , RH90% MAX
Storage Temperature: -20°C~70°C , RH90% MAX
USB Rate: High speed 2.0
Supported OS: Windows 2000 / XP (with Service Pack 2)(No driver required)
WIN7 (No driver required)
Vista (No driver required)
Linux operating system
Other Windows operating systems

4. Accessories



5. Dimension



6. Parts Identification

A quick look at the digital microscope

1. LED light control gear wheel
2. LED light shift button
3. Snapshot button
4. Focus gear wheel
5. Center mount bracket

7. Instructions

(1) Install application software AMCAP on disk. Open the folder "Application software" and double click the file "DRV_UVC_20091216 ForXPVistaWin7.exe" to run setup. After finishing, you can find the icon on your desktop.

(2) Connect the ZM398 to the Computer.

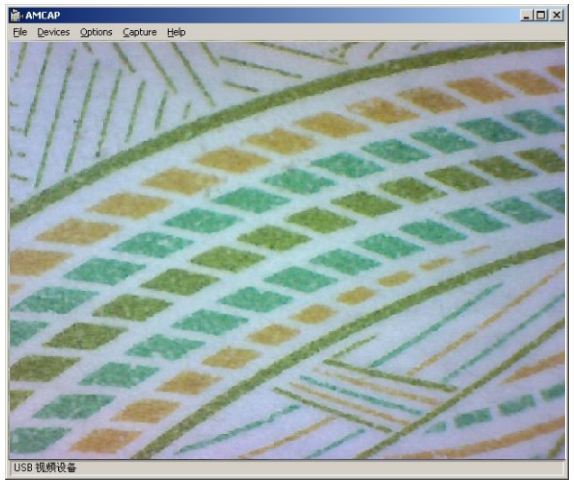
(3) Double click the icon and you will see the Window below.

（Icon）

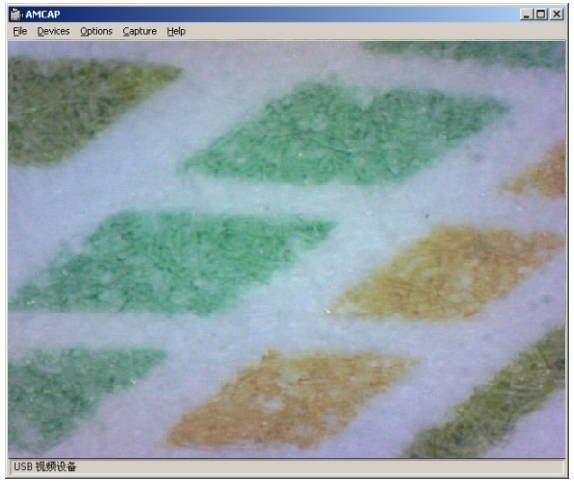
(Figure 1)

(4) Press the LED light shift button, the white light will be activated. If you want to activate the ultraviolet light, press the button one more time. Press the button the third times, the light will be turned off.

(5) Put ZM398 onto the object that you need to magnify (Figure 1). Control the focus gear wheel and you can switch the magnification to 50 times (Figure 2) or 200 times (Figure 3).



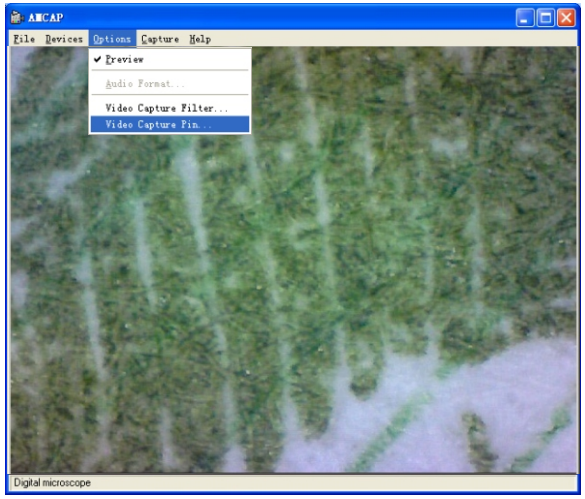
50 times(Figure 2)



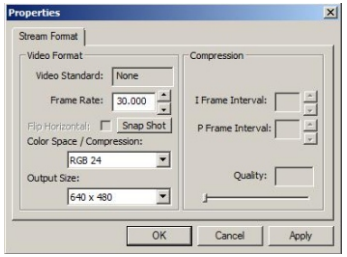
200 times(Figure 3)

(6) You can also control the LED light control gear wheel to control lightness, if it is needed.

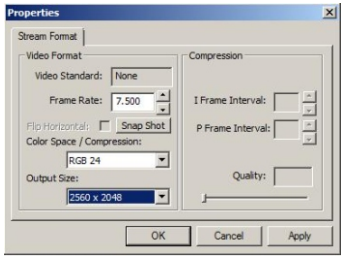
(7) Set the pixel of the picture. For the best, the pixel can be set to 5.0 million (2560*2048): Select “Video Capture Pin” from the Pull-down menu of “Options”.



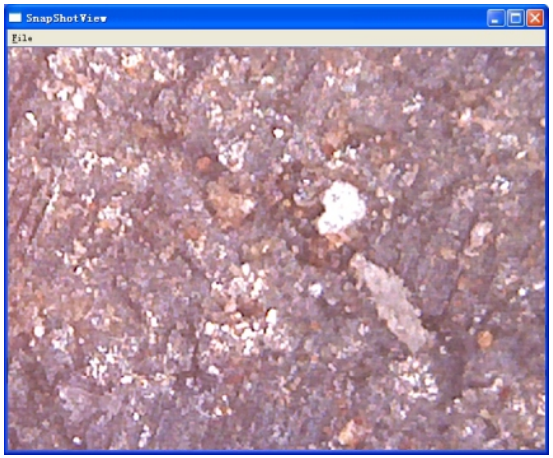
A dialog box as below will be popped up.



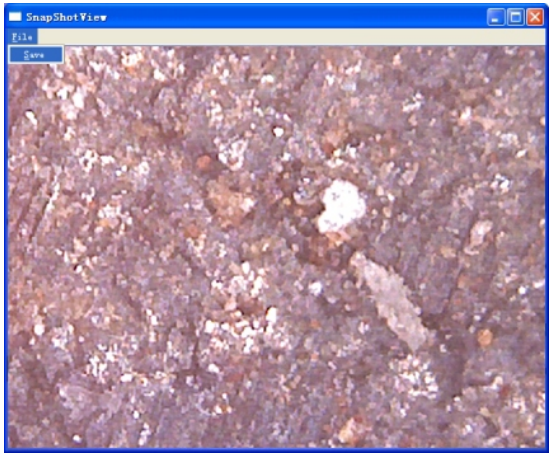
Select the output size as 2560*2048



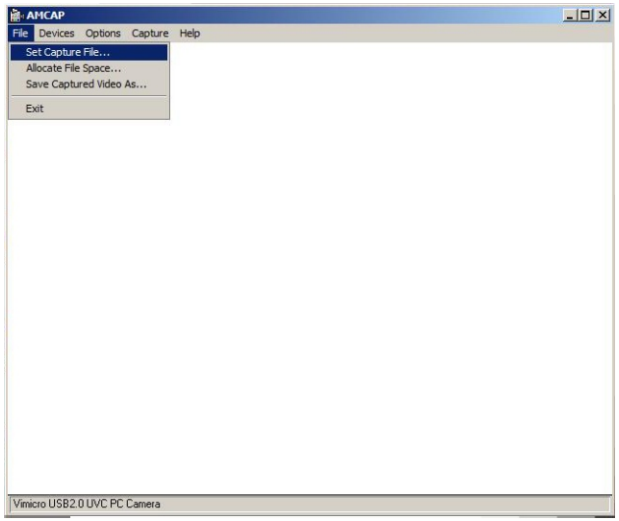
(8) Press the Snapshot button and the Window as below will be popped up.



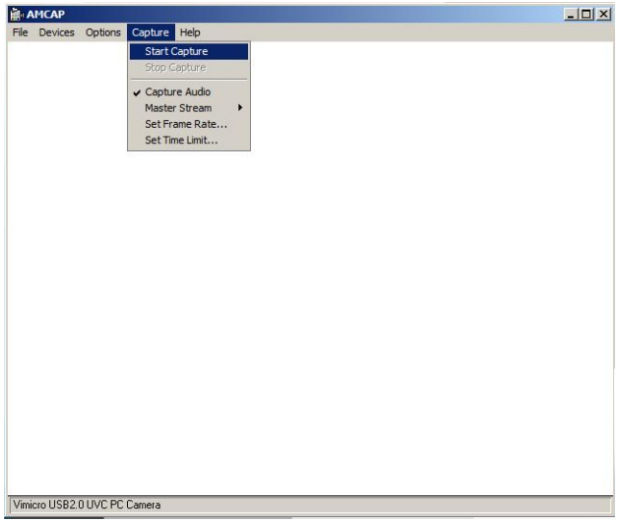
Click File and you can see “Save” from the Pull-down menu. Select “Save” to save the picture.



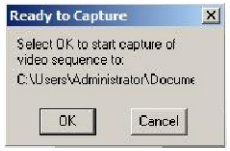
(9) Video. Select “Set Capture File” from the Pull-down menu of File.



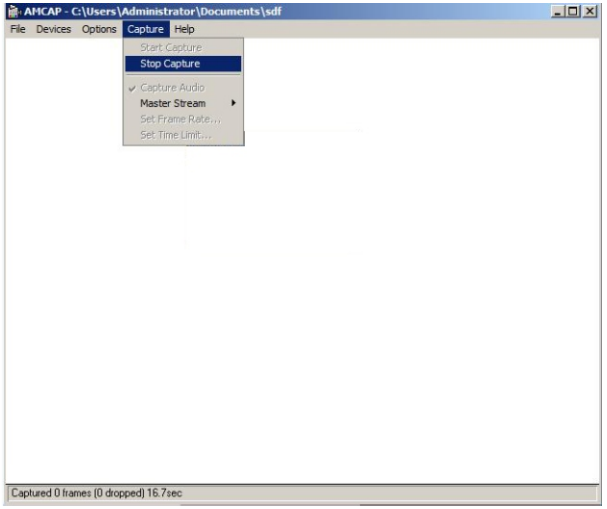
Type the name of the video file and select where you want to save it.
Select “Start Capture” from the Pull-down menu of Capture.



The following message box will be popped up.



Select OK to start capture of video. Select “Stop Capture” from the Down-pull menu of Capture if you want to end the video.



Use the player software (media player) to replay the video files.

Notice

The function "ZOOM" (Path: Option/Video Capture Filter/Zoom) is not apply to this product.